

PATENT  
KM39038-50IN THE CLAIMS:

Please cancel claim 1, without prejudice.

Please add the following claims:

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--21. An assay reagent composition comprising:

(a) an agent which forms a reductant upon exposure of the assay reagent composition to an electrochemical potential sufficient to oxidize said agent; and

(b) a chemical moiety which is (i) not oxidized to a higher oxidation state at said electrochemical potential; and (ii) capable of emitting electrochemiluminescence.

22. An assay reagent composition comprising:

B' (a) an agent which forms an oxidant upon exposure of the reagent mixture to an electrochemical potential sufficient to reduce said agent; and

(b) a chemical moiety which is (i) not reduced to a lower oxidation state at said electrochemical potential; and (ii) capable of emitting electrochemiluminescence.

23. A system for determining the presence of a chemical moiety, which system comprises:

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(a) a reagent mixture comprising an agent which forms either a reductant or an oxidant upon exposure of the reagent mixture to a level of electrochemical energy sufficient to oxidize or reduce said agent; and a chemical moiety which is (i) not oxidized or reduced at said level of electrochemical energy; and (ii) capable of emitting electrochemiluminescence;

(b) means for exposing the reagent mixture to (i) electrochemical energy of a potential which oscillates between a potential sufficiently positive to oxidize the chemical moiety and a potential sufficiently negative to reduce the chemical moiety, thereby inducing the chemical moiety to repeatedly electrochemiluminesce; or to (ii) electrochemical energy such that said chemical moiety is oxidized and the agent forms a reductant, thereby inducing the chemical moiety to repeatedly electrochemiluminescence; or to (iii) electrochemical energy such that said chemical moiety is reduced and the agent forms an oxidant, thereby inducing the chemical moiety to repeatedly electrochemiluminescence; or to

B'  
cont.